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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	09/652,533 (U.S. Patent No. 7,094,690 B1)
Filing Date	August 31, 2000 (issued on August 22, 2006)
First Named Inventor	Gurtej S. Sandhu et al.
Art Unit	2823
Examiner Name	W. Coleman
Attorney Docket Number	MI22-1385

### ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): PTO Return Receipt Postcard Req. for Cert. of Correction - PTO Mistakes Certificate of Correction in duplicate Copies of initial Forms PTO-1449
<b>Remarks</b> Customer No. 021567  Although there is no fee believed due, the Commissioner is hereby authorized to charge any fees under 37 C.F.R 1.16 and 1.17 which may be required by this paper to Deposit Account No. 23-0925.		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Wells St. John P.S.		
Signature			
Printed name	James E. Lake		
Date	27 Apr 2007	Reg. No.	44,854

Certificate  
MAY 8 2 2007  
of Correction

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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MAY - 7 2007



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No. .... 7,094,690 B1  
Patent Issue Date ..... August 22, 2006  
Application Serial No. .... 09/652,533  
Filing Date ..... August 31, 2000  
Assignee ..... Micron Technology, Inc.  
Inventorship ..... Gurtej S. Sandhu et al.  
Attorney's Docket No. .... MI22-1385  
Title: ..... Deposition Methods and Apparatuses Providing Surface Activation

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT**  
**FOR PTO MISTAKE (37 C.F.R. 1.322(a))**

To: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
ATTN: Decision and Certificate of Correction  
Branch of the Patent Issue Division  
  
From: James E. Lake (Tel. 509-624-4276; Fax 509-838-3424)  
Wells St. John P.S.  
601 W. First Avenue, Suite 1300  
Spokane, WA 99201-3828

Sir:

It is hereby requested that a Certificate of Correction be issued with respect to Patent No. 7,094,690 B1, granted August 22, 2006, in accordance with the Certificate of Correction form attached hereto in duplicate.

The errors listed on the Certificate of Correction form were apparently incurred through the fault of the PTO as will be disclosed by the records of files in the Office, in particular, Applicant's Information Disclosure Statement filed December 15, 2000 and Supplemental Information Disclosure Statements filed July 1, 2004, December 7, 2004, March 23, 2005, and October 21, 2005 (initialed copies of Forms PTO-1449 attached).

Since this Certificate of Correction is being requested due to PTO errors, it is believed that no fee is due. However, in the event that a fee is required for issuance of this Certificate of Correction, please charge the fee specified under 37 C.F.R. § 1.20(a) to Deposit Account No. 23-0925. Please credit Deposit Account No. 23-0925 with any overpayment of the above fee.

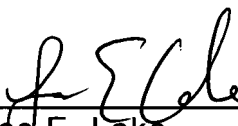
Attached hereto, in duplicate is Form PTO-1050, with at least one copy being suitable for printing.

Respectfully submitted,

Dated: \_\_\_\_\_

27 Apr 2007

By: \_\_\_\_\_

  
James E. Lake  
Reg. No. 44,854

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO. : 7,094,690 B1

APPLICATION NO.: 09/652,533

DATED : August 22, 2006

INVENTOR(S) : Gurtej S. Sandhu et al.

It is certified that an error or errors appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, References Cited, U.S. PATENT DOCUMENTS, please insert:

--4,058,430 11/1977 Suntola et al.--

--5,124,278 06/1992 Bohling et al.--

--5,270,247 12/1993 Sakuma et al.--

--5,290,824 09/2001 Mandal--

Title Page, References Cited, FOREIGN PATENT DOCUMENTS, please insert:

--EP 0 794 568 10/1997--

--Kiyoko et al., Patent Abstract Application No. 04-024917 (JP 9224917, 09/1993);  
"Semiconductor Substrate and Its Manufacture."--

Page 2, U.S. PATENT DOCUMENTS, please insert:

--5,937,300 08/1999 Sekine et al.--

--6,060,383 05/2000 Nogami et al.--

--6,165,916 12/2000 Muraoka et al.--

--6,258,690 07/2001 Zenke--

--6,620,723 09/2003 Byun et al.--

--6,627,260 09/2003 Derderian et al.--

--6,627,503 09/2003 Ma et al.--

Page  
1 of 3

**Mailing Address of Sender:**

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Patent No. US 7,094,690 B1

MAY 1 - 7 2007

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 2 of 3

PATENT NO. : 7,094,690 B1

APPLICATION NO.: 09/652,533

DATED : August 22, 2006

INVENTOR(S) : Gurtej S. Sandhu et al.

It is certified that an error or errors appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Page 2, U.S. PATENT DOCUMENTS, please insert:

--6,727,169 04/2004 Raaijmakers et al.--  
--2002/0066411 06/2002 Chiang et al.--  
--2005/0101119 A1 05/2005 Li et al.--  
--2005/0124153 A1 06/2005 Cohen--  
--2005/0124158 A1 06/2005 Lopatin et al.--  
--2005/0124171 A1 06/2005 Vaartstra--

Page 2, OTHER PUBLICATIONS, please insert:

--Vernon, S.M., "Low-cost, high-efficiency solar cells utilizing GaAs-on-Si technology", Dialog Abstract of Report No. NREL/TP-451-5353, 04/1993.--  
--Suntola, "Atomic Layer Epitaxy", Handbook of Crystal Growth, Vol. 3, Chapter 14, pages 602-663, 1994.--  
--Ritala, et al., "Atomic Layer Epitaxy – A Valuable Tool for Nanotechnology?" Nanotechnology, Vol. 10, No. 1, pages 19-24, March 1999.--  
--George, et al., "Surface Chemistry for Atomic Layer Growth", Journal of Physical Chemistry, Vol. 100, No. 31, pages 13121-13131, August 1, 1996.—

Page  
2 of 3

**Mailing Address of Sender:**

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Patent No. US 7,094,690 B1

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UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

Page 3 of 3

PATENT NO. : 7,094,690 B1

APPLICATION NO.: 09/652,533

DATED : August 22, 2006

INVENTOR(S) : Gurtej S. Sandhu et al.

It is certified that an error or errors appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 12, claim 17, line 13

Replace "contacting with the surface activation agent and precursor"

With --contacting with the surface activation agent and first precursor--

Page  
3 of 3

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Patent No. US 7,094,690 B1

**MAY - 7 2007**

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
MI22-1385SERIAL NO.  
09/652,533LIST OF ARTICLES BY APPLICANT  
(Use several sheets if necessary)

APPLICANT - Gurtej S. Sandhu, et al.

FILING DATE  
August 31, 2000GROUP  
Unassigned

2823

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,270,247	12/1993	Sakuma et al.			
	AB	09/643,004		Mercaldi			08/21/2000
	AC	09/619,449		Derderian			07/19/2000
	AD						
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	AJ						
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## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL	EP 0 794 568	10/09/97	Europe	H01L	21/768	X	
	AM							
	AN							
	AO							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Kiyoko et al., Patent Abstract Application No. 04-024917 (JP 9224917, 09/1993), "Semiconductor Substrate and Its Manufacture."
		Ritala, et al., "Atomic Layer Epitaxy - A Valuable Tool for Nanotechnology?" Nanotechnology, Vol. 10, No. 1, pps. 19-24, March 1999.
	AQ	George, et al., "Surface Chemistry for Atomic Layer Growth", Journal of Physical Chemistry, Vol. 100, No. 31, pps. 13121-13131, August 1, 1996.
		Suntola, "Atomic Layer Epitaxy", Handbook of Crystal Growth, Vol. 3, Chapter 14, pps. 602-663, 1994.
	AR	Vernon, S.M., "Low-cost, high-efficiency solar cells utilizing GaAs-on-Si technology." Dialog Abstract of Report No. NREL/TP-451-53553; 04/1993.

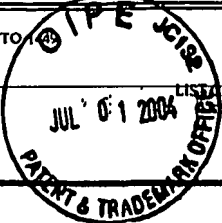





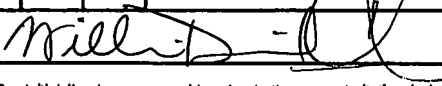
EXAMINER

DATE CONSIDERED

March 27, 2002

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form PTO 143		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. M122-1385		SERIAL NO. 09/652,533		
 LIST OF PART CITED BY APPLICANT (Indicate several sheets if necessary)				APPLICANT    Gurtej S. Sandhu				
				FILING DATE August 31, 2000		GROUP 2823		
U.S. PATENT DOCUMENTS								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA	6,827,260	09/2003	Derderian et al	427	301		
	AB	5,937,300	08/1999	Sekine et al	438	300		
	AC	6,060,383	05/2000	Nogami et al	438	622		
	AD	6,258,690	07/2001	Zenko	438	326		
	AE	6,596,636	07/2003	Sandhu	438	676		
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FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AM							
	AN							
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AO							
	AP							
	AQ							
	AR							
EXAMINER 				DATE CONSIDERED 9/1/04				
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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
M122-1385SERIAL NO.  
09/652,533

DEC 07 2004

LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)

APPLICANT Gurtej S. Sandhu

FILING DATE  
August 31, 2000GROUP  
2823

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	4,058,430	11/1977	Suntola et al			
	AB	6,627,503	9/2003	Ma et al			
	AC	5,290,824	03/1994	Mandal et al			
	AD	8,830,201	10/2005	Ohleng et al			
	AE	5,124,278	06/1992	Bohling et al			
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	AK						
	AL						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
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	AN							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

	AO			
	AP			
	AQ			
	AR			

EXAMINER

DATE CONSIDERED

February 9, 2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EV372468405

MAY 1 - 7 2007

Form PTO-101		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. M122-1385		SERIAL NO. 09/652,533	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Gurtej S. Sandhu			
				FILING DATE August 31, 2000		GROUP 2823	

U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA		6,290,824	3/1994	Ishikawa et al			
AB		2002/0066411	06/2002	Chiang et al			
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AE							
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FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
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AQ			
AR			






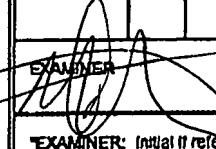
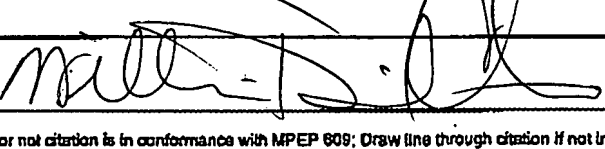
  

EXAMINER	<i>Michael D. D.</i>	DATE CONSIDERED	11/8/2005
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EV371301302

MAY - 7 2002

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. MI22-1385		SERIAL NO. 09/662,633	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT: Gurtej S. Sandhu et al.			
					FILING DATE August 31, 2000		GROUP 2823	
<b>U.S. PATENT DOCUMENTS</b>								
Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
	AA	6,165,916	12/2000	Muraoka et al.				
	AB	2005/0124171 A1	06/2005	Vaartsbra				
	AC	2005/0124168 A1	06/2005	Lopatin et al.				
	AD	2005/0124163 A1	06/2005	Cohan, Uri				
	AE	2005/0101119 A1	05/2005	Li et al.				
	AF							
	AG							
	AH							
	AI							
<b>FOREIGN PATENT DOCUMENTS</b>								
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	AJ							
	AK							
	AL							
<b>OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	AM							
	AN							
	AO							
EXAMINER 		DATE CONSIDERED  11/8/2005						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

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